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IN THE CLAIMS

- (Original) A medical grade deformer, comprising:
 an axial member; and
- a pliable tube mounted on said axial member and adapted to be deformed from a first, narrower diameter, configuration to a second, greater diameter, configuration.
 - 2. (Original) A deformer according to claim 1, wherein said tube is slotted through its thickness.
 - 3. (Original) A deformer according to claim 1, wherein said tube is not slotted.
- (Original) A deformer according to claim 1, comprising at least one end engaging one end of said tube and adapted to apply compressive force to said tube for achieving said deformation.
 - 5. (Original) A deformer according to claim 4, comprising at least a second end one end engaging a second end of said tube and adapted to cooperate with said first end to compress said tube.
 - 6. (Original) A deformer according to claim 5, wherein said two engaging ends and said axial member lock to maintain said pliable tube in a greater diameter configuration.
- 7. (Original) A deformer according to claim 1, wherein said tube changes configuration by axial compression thereof.
 - 8. (Original) A deformer according to claim 1, wherein said axial member is rigid.
 - 9. (Original) A deformer according to claim 1, wherein said axial member is flexible.
 - 10. (Original) A deformer according to claim 1, wherein said axial member extends out of said tube and is attached to a handle.

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- 11. (Original) A deformer according to claim 1, wherein said axial member comprises a release mechanism for release of said deformer from a delivery system.
- 12. (Original) A deformer according to claim 11, wherein said axial member comprises a locking mechanism for locking of said deformer in a greater diameter configuration in conjunction with release.
 - 13. (Original) A deformer according to claim 1, wherein said deformer includes a channel adapted for bone filler flow.
 - 14. (Original) A deformer according to claim 13, wherein said channel is formed in said axial member.
- 15. (Original) A deformer according to claim 13, wherein said channel is formed between said axial member and said tube.
 - 16. (Original) A deformer according to claim 1, wherein said axial member extends from said tube and is adapted to function as a hinge of a joint.
- 20 17. (Original) A deformer according to claim 1, wherein said deformer forms a bone attachment unit for a prosthesis.
 - 18. (Original) A deformer according to claim 1, comprising an enclosing bag, which surrounds said tube in said second configuration.
 - 19. (Original) A deformer according to claim 18, wherein said bag is bio-degradable in the body.
 - 20. (Original) A deformer according to claim 18, wherein said bag is porous.
 - 21. (Original) A deformer according to claim 1, wherein said deformer defines a general volume in the shape of a cylinder when in said second configuration.

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- 22. (Original) A deformer according to claim 1, wherein said deformer defines a general volume in the shape of a truncated pyramid when in said second configuration.
- 23. (Original) A deformer according to claim 1, wherein said deformer defines an axially
 rotationally asymmetric general volume when in said second configuration.
 - 24. (Original) A deformer according to claim 1, wherein said deformer defines a predetermined general volume when in said second configuration.
- 10 25. (Original) A deformer according to claim 1, wherein said deformer comprises a set of axially contiguous zones with different material properties.
 - 26. (Original) A deformer according to claim 1, wherein said deformer has a non-smooth outer surface in said second configuration.
 - 27. (Original) A deformer according to claim 1, wherein said deformer is stiff enough, when in said second configuration to resist a trans-axial force of at least 50Kg.
- 28. (Original) A deformer according to claim 1, wherein said deformer, when in said second configuration has an axial applied force of at least 2Kg.
 - 29. (Original) A deformer according to claim 1, wherein said pliable material has a shore hardness of between 50A and 90D.
- 25 30. (Original) A deformer according to claim 1, wherein said pliable material is non-metallic.
 - 31. (Original) A deformer according to claim 1, wherein said pliable material is polymeric.
- 30 32. (Original) A deformer according to claim 1, wherein said deformer includes at least one axial thread.
 - 33. (Original) A deformer according to claim 1, wherein said deformer includes at least one circumferential thread.

34. (Original) A deformer according to claim 1, wherein said deformer, in said second configuration, defines a general volume and wherein said deformer fills at least 30% of said volume.

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- 35. (Original) A deformer according to claim 1, wherein said deformer, in said second configuration, defines a general volume and wherein said deformer fills at least 50% of said volume.
- 10 36. (Original) A deformer according to claim 1, wherein said tube defines a plurality of slots, such that when deformed to the second configuration, a plurality of axially displaced leaves extend from said tube to define said second configuration.
- 37. (Original) A deformer according to claim 36, wherein said tube defines at least three axially displaced leaves.
 - 38. (Original) A deformer according to claim 36, wherein adjacent leaves support each other, in said second configurations.
- 20 39. (Original) A deformer according to claim 36, wherein an end leaf is shorter than a non-end leaf.
 - 40. (Original) A deformer according to claim 36, wherein an end leaf is supported, on one side thereof, by an end cap of said deformer.

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- 41. (Original) A deformer according to claim 36, wherein adjacent leaves deform each other.
- 42. (Original) A deformer according to claim 36, wherein at least 50% of the leaves are deformed from a plane.
 - 43. (Original) A deformer, comprising a non-inflatable substantially non-absorbent deformable non-metallic body having two configurations, a first configuration in which said body has a narrower diameter and a second configuration in which said narrower diameter is

greater, wherein said deformer is adapted to remain substantially undeformed under a force of over 10 Kg and wherein said deformer is sized for positioning inside a human vertebra.

- 44. (Original) A deformer according to claim 43, wherein said deformer is adapted to remain substantially undeformed when in a human lumbar vertebra in standing condition.
 - 45. (Original) A deformer according to claim 43, wherein said deformer is self-expanding.
- 46. (Original) A deformer according to claim 43, as part of kit including a spinal access tool.
- 47. (Original) A method of spinal surgery, comprising:
 inserting a non-inflatable non-absorbent deformable deformer into a vertebra; and
 deforming said deformer such that cortical bone of vertebral faces of said vertebra,
 move relative to each other.
- 48. (Original) A method of treating a bone, comprising:
 inserting a unsealed pliable element into the bone; and
 mechanically deforming the pliable element such that said pliable element applies
 20 deforming force on the bone.
 - 49. (Original) A method according to claim 48, wherein said pliable element comprises at least one open aperture of cross-section greater than 0.5x0.5 mm.
- 50. (Original) A method according to claim 48, wherein said bone comprises a vertebral bone.
 - 51. (Original) A method according to claim 48, wherein said bone comprises a long bone.
- 30 52-61. (Cancelled)